

## **Abstract**

### **Method of Manufacturing Microwave Filter Components and Microwave Filter Components Formed Thereby**

A simplified method for forming passive microwave components, such as a filter, and passive microwave components formed by the method. The

5 method includes forming a ceramic insert having a plurality of resonator regions and then die casting an outer casing of a conductive material about the ceramic insert. Each resonator region has a cavity that may be filled with the conductive material used to die cast the outer casing or, alternatively, may be filled with a resonator rod made of different materials than the encapsulating metal.